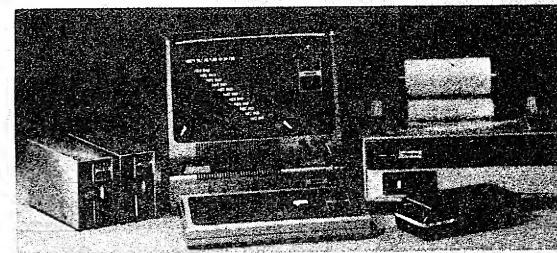
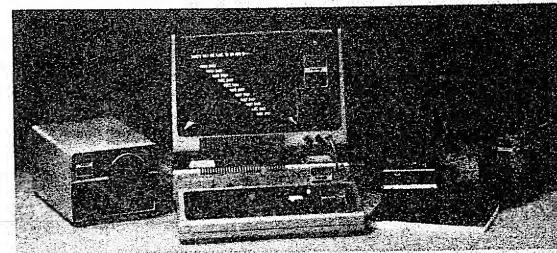
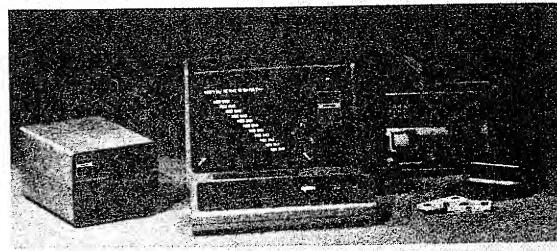
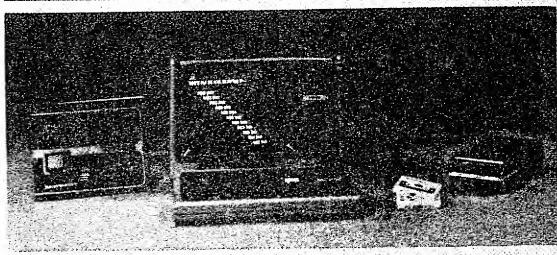
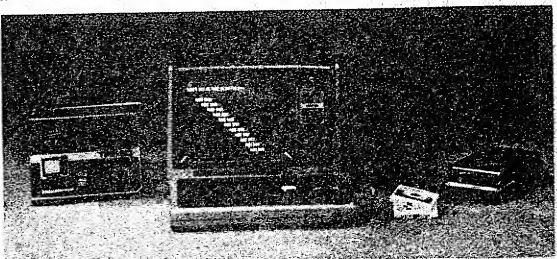


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BY ALAN MEYERS

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TRS-80'S

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- * Complete editing mode allowing changes in any or all columns plus deletion module.

- * Checkbook balancing with balance brought forward held in memory and recorded on tape. Program will handle balances up to \$999,999.99. Graphic screen printout starting at any given check number.

- * Bank reconcile with listing of all outstanding checks. Program automatically deletes all cleared checks if checkbook balances.

- * Search and total routine with the capability of searching all checks in memory or an entire month, by date, check number, whom to or code.

- * Tape input/output with the ability to record from any given check number. Automatically names file by check numbers.

- * Complete printout of everything on screen with the press of a button from anywhere in the program.

- * Visual numeric sort routine.

Automatic after keyboard input.

- * 16K version handles 75 transactions. The 32K version (without DOS) can handle an amazing 400!

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CHECKBOOK II
T80-0015

SHPG WGT: 1 lb. PR: \$18.50 QTY: 1

MENU

1. KEYBOARD INPUT
 2. LIST AND EDIT
 3. PRINT WITH BALANCE
 4. SEARCH AND TOTAL
 5. RECONCILE
 6. SORT
 7. INPUT FROM TAPE
 8. OUTPUT TO TAPE
 9. CHECK FILE LENGTH
 10. CLEAR
- WHICH NUMBER? ..

KEYBOARD INPUT				
CK#	DATE	TO WHOM	AMOUNT	CODE
710	4/10/79	ATLANTA GAS	34.55	GAS
711	4/11/79	TBS	51.50	SOFT
712	4/11/79	ACME AUTO SALES	3,452.82	AUTO
712.1	4/11/79	DEPOSIT	3,000.00	LOAN
713	4/12/79	RADIO SHACK	125.33	
714	4/13/79	GEORGIA	43.55	AUTO
715	4/14/79	IRS	348.66	TAX
715.1	4/14/79	DEPOSIT	675.87	SAL
716	4/15/79	COMPUTER STORE	123.45	COMP
717	4/20/79	COMPUTER STORE	14.44	COMP
717.1	4/20/79	DEPOSIT-COMPINC	588.80	XINC

CHECK BALANCING				
CK#	DATE	TO WHOM	AMOUNT	BALANCE
709	4/09/79	GEORGIA POWER	46.78	3,526.64
710	4/10/79	ATLANTA GAS	34.55	3,492.09
711	4/11/79	TBS	51.50	3,440.59
712	4/11/79	ACME AUTO SALES	3,452.82	12.28
712.1	4/11/79	DEPOSITS	3,000.00	2,987.72
713	4/12/79	RADIO SHACK	125.33	2,862.39
714	4/13/79	GEORGIA	43.55	2,818.84
715	4/14/79	IRS	348.66	2,470.18
715.1	4/14/79	DEPOSIT	675.87	3,146.05
716	4/15/79	COMPUTER STORE	123.45	3,022.60
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PRESS ENTER TO CONTINUE ..

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- COMPLETE MANUAL AND DOCUMENTATION
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- AUTOMATICALLY LOAD AND EXECUTE ANY SEQUENCE OF SYSTEM AND/OR BASIC PROGRAMS AND DATA FROM POWER UP.
- COMMAND FILES CREATED, SAVED AND EDITED IN BASIC
- SOPHISTICATED OPTIONS INCLUDE INTERACTIVE PROMPTING AND SUBSTITUTIONAL PARAMETERS
- ALLOWS NON-COMPUTER PERSONNEL TO EASILY EXECUTE PROGRAMS
- NOW (FOR EXAMPLE) YOU CAN SEE THE DIRECTORY, LOAD A SYSTEM PROGRAM (SUCH AS GSF), LOAD BASIC, LOAD A BASIC PROGRAM (SUCH AS MAIL), AND LOAD A DATA FILE (SUCH AS AN INDEX) — ALL AT THE TOUCH OF ONE-BUTTON (TO TURN ON YOUR TRS-80) THE USER CAN USE COMPROC TO SPECIFY ANY SERIES OF UP TO 9 AUTO COMMANDS.

"SOME COMMON BASIC PROGRAMS"

(FROM THE BASIC BUSINESS SOFTWARE COMPANY, INC.)

This package consists of 76 Programs which appeared in Osborne & Associates book, "Some Common Basic Programs," which was written by Lon Poole and Mary Borchers. The programs are broken up into four different areas:

- | | |
|-----------------------|--------------------------|
| (1) Statistics | (3) Math |
| (2) Finance | (4) Miscellaneous |

This package is useful to many individual needs for it covers a very broad range of applications. On the following page is a list of all the programs which are included in this package.

The programs were originally written in Wang Basic, but we have converted these basic programs to the individual basic languages that we have listed below for sale. All packages include one or more floppy disks, a supplementary instruction manual and may also include the above mentioned book, "Some Common Basic Programs," which does serve as the users manual. This book provides listings of all the programs, example runs and information on how to alter the programs if you desire to change it slightly for a particular need.

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(FROM THE BASIC BUSINESS SOFTWARE COMPANY)

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And All Will Run In 8K Of Memory**

- | | | |
|---------------------------------|--------------------------------|-------------------------------------|
| 1. Permutations + Combinations | 9. Power Curve Fit | 17. Bivariate Normal Distribution |
| 2. Basic Statistics | 10. Multiple Linear Regression | 18. Geometric Distribution |
| 3. Moments, Skewness * Kurtosis | 11. Normal Distribution | 19. Poisson Distribution |
| 4. Anova (one-way) | 12. T-Statistics Evaluation | 20. Binomial Distribution |
| 5. Anova (two-way) | 13. T-Distribution | 21. Weibull Distribution |
| 6. Linear Regression | 14. Chi-Square Evaluation | 22. Spearman's Rank |
| 7. Exponential Curve Fit | 15. Chi-Square Distribution | 23. Contingency Table |
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PRESENT VALUE OF PAYMENTS
NOMINAL-EFFECTIVE INTEREST
FUTURE VALUE OF DEPOSITS
BOND-PRESENT VALUE
SALE-COST-MARGIN
MOVING SALES AD

SIMPLE INTEREST FOR DAYS
AMORTIZATION SCHEDULE
INSTALLMENT LOAD INTEREST RATE
TERM OF INSTALLMENT LOAD
REAL ESTATE INVESTMENT ANALYSIS
INTERNAL RATE OF RETURN
ALL DEPRECIATION CALCULATIONS
BOND-YIELD TO MATURITY
DAY OF WEEK

EDUCATION

ADD****SUBTRACTION****MULTIPLY****DIVIDE****FRACTIONS****DECIMALS
****BASE NUMBERS****EDUQUIZ****PILOT****

GRAPHICS

FRONT COVER****WIERD****RATTRACE****RANDOM AD****FIRESIDE****
LEFT RIGHT****BLOCKS****HERRING****LAUNCH****BLINKER****SNOOPY****
SNOW****STEP AD****GRAPHIC****WAR GAME****STAR TREK****SPEEDY****
LIFE****COUNT****ROAD RACE****FIFTEEN****

HOME

BARTENDER****NUTRITION****CONVERSION****CALENDAR****
BASE CONVERSION****CALCULATOR****VACATION****TELE CODE****
MESSAGE CENTER****NIGHT CHECKOFF****EXPENSE****BABY SITTER****
DRUNKOMETER****REMEMBER****XMAS LIST****MILEAGE****

GAMES

JUMBLE 1****SEARCH****MEMORY LETTERS****STRING RAY****
RUSSIAN ROULETTE****WHEEL OF FORTUNE****TOWERS****DECISION****
MEMORY NUMBERS****DOOMSDAY****SKETCH****FLIPPER****STAIRS****
ODD ONE****SPY SHIP****HORSE****SCISSORS****CRAPS****
STAR BLAZER****TIGER SHARK****UNJUMBLE****MIND READER****
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COMPRESS AND UNCOMPRESS DATA. Two subroutines are provided which compress data in memory by removing repeated characters with the ability to uncompress the data in the minimum space possible with subsequent regeneration. This, coupled with the Read and Write Tape Data Subroutines, provides an efficient method of data storage and retrieval.

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DUPLICATE MEMORY. Two subroutines are provided to duplicate a byte in memory. This is useful for setting arrays to zero or rapidly placing rows or columns of repeated characters on the screen.

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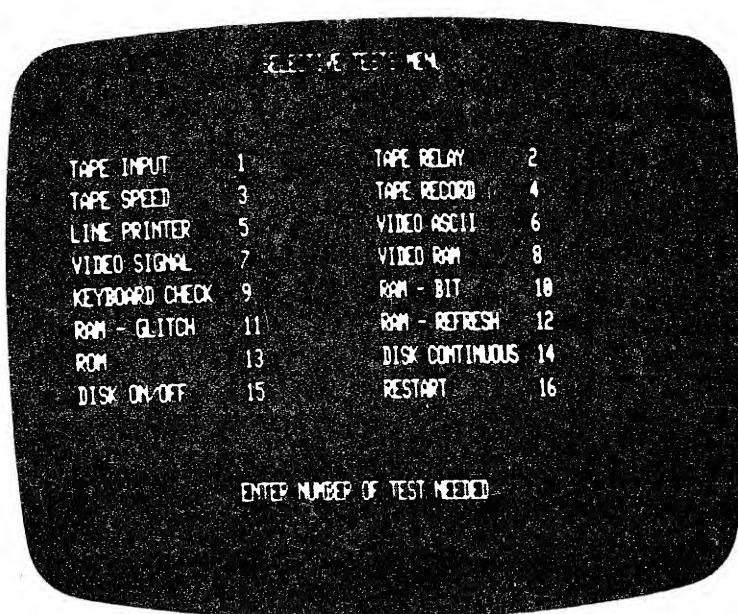
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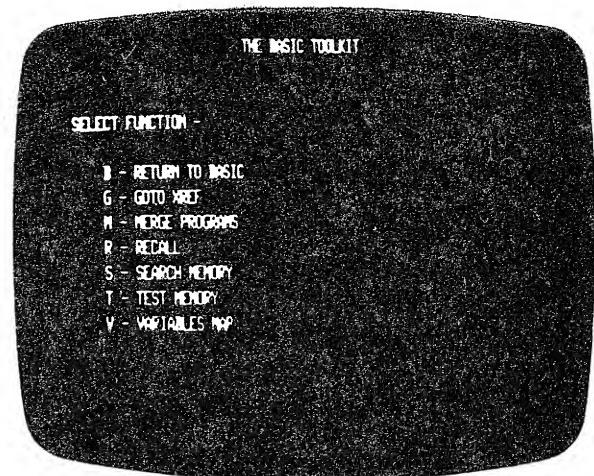
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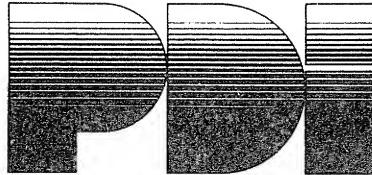
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FOR MINIMUM SYSTEM OF 16K CASSETTE OR 32K DISK SYSTEMS

This collection of programs aids both financial professionals and individuals in the evaluation, selection, and management of investment portfolios. It features: coverage of stocks, bonds, convertible securities, options, warrants, and annuities; realistic treatment of taxes and commissions - and portfolio selection methods.

PORTFOLIO BOOKKEEPING - Keep Track of all your Stocks and Bonds. Evaluates the historical profitability of a given portfolio. Also computes realized gains for income tax purposes.

EARNINGS PER SHARE ESTIMATION. Uses historical balance sheet and income data to estimate future earnings per share.

COMPOUND INTEREST. Given any three of the four terms, solves for the fourth term in the compound interest equation relating future value of a deposit to interest rate, time period, and present value.

ANNUITIES. Solves for any one of five terms in the annuity equation relating future value, present value, interest rate, periodic payment, and balloon payment for ordinary annuities, sinking funds, and annuities due.

UNEVEN CASH FLOWS. Uses sophisticated numerical techniques to calculate the rate of return on a capital investment based on the resulting cash flows generated. Also finds future value and present value of a series of uneven flows.

STOCK VALUATION. Finds current and future values of a stock and before and after tax rates of return. Also considers commissions in all calculations.

OPTION VALUATION (Black-Scholes Model). Calculates the Black-Scholes value and optimum hedge ratio of any option.

OPTION WRITING. When selling partially covered calls, or when selling puts and shorting stock, this program is used to find the maximum profit, investment, maximum return, and upper and lower break-even points.

WARRANT VALUATION. Determines the value of both short and long term warrants.

BOND VALUATION. Given present value, coupon interest, yield to maturity, maturity value, or number of periods (3 out of 4), the remaining term is found by this program. Also considers taxes and commissions and computes the current yield.

STOCK INDICATORS. Given historical market index data and stock prices, this program finds the expected return of the index and standard deviation of that return, as well as the alpha, beta, expected return, and standard deviation of return for each stock.

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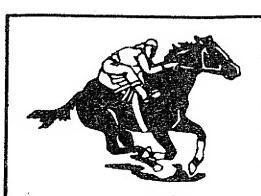
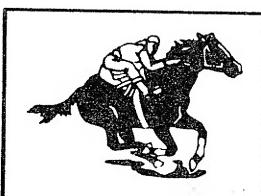
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TRS-80™

MON-3
RSM - 2
RSM-2D

DCV-1
BASIC-1
AIR RAID

MON-3 MACHINE LANGUAGE PROGRAMMING FOR BEGINNERS

By Dr. Hubert S. Howe, Jr.

- **BEGINNERS** can learn to interact directly with the computer in machine language.
- **COMPLETE** manual provided with program.
- **SIMPLE** commands, easy for beginners to use.
- **ADVANCED** commands for assembly programmers and disk systems.

The features of the monitor allow you to do the following things:

- **SAVE or READ SYSTEM** tapes.
- **SAVE SYSTEM** tapes on disk.
- **DISPLAY** contents of memory in different ways.
- **DISASSEMBLE** memory to see machine language commands.
- **SEARCH** through memory to find specific values.
- **MOVE and COMPARE** memory blocks.
- **MODIFY** and initialize memory blocks.
- **RELOCATE** object programs.
- **PRINT** output either on video display or line printer.

MON-3 is a powerful utility program that is as useful for beginners as it is for advanced programmers. Its commands provide you with nearly everything you need to interact with the TRS-80 in machine language. More advanced features include a command that produces a symbolic tape of the disassembly that can be loaded and reassembled using the TRS-80 Editor/Assembler, and a feature that allows object programs that are to be executed anywhere in memory to be saved on disk, even if they run in the same area used by the TRSDOS system.

The program is available only for Level II BASIC computers. Specify whether you have 16K, 32K, or 48K RAM. All versions are compatible with cassette or disk.

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RSM-2 (\$26.95) _____ BASIC-1 (\$15.95) _____

RSM-2D (\$29.95) _____ AIR RAID (\$14.95) _____

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RSM-2 MACHINE LANGUAGE MONITOR

A 27-command monitor program with capabilities for entering, executing, saving and loading machine language programs. Commands to search, display, edit, zero, exchange, test, fill and verify memory. Also provides links for keyboard and CRT display access for users.

Provides access to all memory locations. You may examine your Basic ROM's, test your RAM, enter and execute machine language programs, read and write machine language tapes.

You can set BREAKPOINTS in your programs, write SYSTEM tapes, READ SYSTEM tapes and display their name and starting address, and PRINT any command with the TRS232 printer interface or the Radio Shack expansion interface! Disk commands (see RSM-2D) are included for future expansion of your system. RSM-2 loads from cassette into the top 5K of memory in Level I or Level II 16K computers so that it can reside in memory with other programs!

RSM-2D

This special disk version of RSM-2 has all the commands of both RSM-1S and RSM-2, including two commands that read or write disk sectors directly! You can read any number of disk sectors into any memory area, or write any memory area to disk! A truly unique tool for use with disk systems. RSM-2D is furnished on disk with three versions that load and run in the top 5K of 16K, 32K and 48K computers. A special loader program prompts you to select the desired version, which then loads and executes. If desired, you can make CMD files of RSM-2D by use of the TAPE-DISK command for direct execution from TRSDOS.

DCV-1 CONVERTS MACHINE LANGUAGE PROGRAMS FROM A TAPE TO A DISK PROGRAM

DCV-1 is a special SYSTEM tape that allows you to convert nearly any machine language program from a tape to a disk program. Nearly all of our software may now be executed from your disk system! This includes RSM monitors, The Electric Pencil, Air Raid, RSL-1, ESP-1 or any program that occupies less than 5K (Larger programs may be handled if you have more than 16K of memory). After DCV-1 is loaded, DCV-1 then loads any SYSTEM tape into memory starting at 6C00 Hex. A short block-move program is added at the beginning of the program, and the parameters necessary to create a disk file are displayed on the screen. TAPEDISK is then used to create a disk file. When accessed, the program loads at 6C00 Hex, moves itself to its correct address, then jumps there and executes! A super accessory for disk systems!

BASIC-1 LEVEL I BASIC FOR LEVEL II MACHINES

Level I and II without extra hardware. This program will read a 12K maximum level I program and execute it as is. It is possible to switch back and forth between level I and level II without reloading the program. Works under level II and DOS BASIC. All level I abbreviations are supported.

AIR RAID A REAL-TIME SHOOTING GALLERY

AIR RAID is an arcade-type action game that uses the high speed machine language capabilities of the TRS-80. AIR RAID offers enough challenge to keep the attention of the most dedicated of game haters, and has been known to become nearly an obsession to more than one individual. Just about the time you finally achieve that magic score of 10,000, someone points out that you're still playing the game at one of the low speeds!

AIR RAID is played on the TRS-80 video screen. A random sequence of large slow aircraft and small fast aircraft traverse the screen in both directions at seven altitudes. A missile launcher that can be pointed in 5 different directions launches missiles under your command. After launch, the flight path may be modified (if you're fast enough)! When hit, aircraft explode dramatically and the debris rains to the bottom of the screen, destroying any aircraft in its path! On occasion, two aircraft collide, destroying the aircraft and creating a parachute which settles slowly to the ground. These, of course, offer additional targets, but they are much harder to hit than the aircraft. To compensate, a higher score is tallied for parachute hits!

AIR RAID also runs in a continuous demonstration mode, providing an interesting display for shows or computer meetings. AIR RAID will provide hours of fun for you, and is an ideal program for entertaining your friends!



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REMODEL • PROLOAD • COPSYS • TIMSER LEVEL II TRS-80 PROFESSIONAL PROGRAMMING TOOLS YOU HAVE BEEN WAITING FOR

NOW FOR THE FIRST TIME WITH REMODEL YOU CAN:

- RENUMBER any portion or all of a basic program with line number references adjusted.
- MOVE any portion of a basic program from one location to another.
- DELETE lines or ranges of lines while using the utility.

WITH BOTH PROLOAD AND REMODEL YOU HAVE THE ADDITIONAL POWER TO:

- LOAD all or any portion of a basic program from tape (CLOAD format).
- LOAD MULTIPLE basic programs - renumbering and merging into any location.
- SAVE combined/merged programs or any portion of a program to tape.
- VERIFY bit-for-bit the contents of saved programs.

AND WITH COPSYS YOU CAN:

- COPY SYSTEM (machine language object) tapes rapidly and accurately.
- MERGE independently assembled object tapes into one load module.
- VERIFY bit-for-bit system tapes duplicated by COPSYS.

REMODEL is a powerful utility that for the first time allows the TRS-80 user to **RENUMBER** any portion or all of a basic program **MOVE**, any portion from one location to another, or **DELETE** any range of lines. This includes readjusting line number references where required. The user will find REMODEL to be an indispensable tool in program development by assisting in the creation of well organized, readable, and easy to document programs. Specify 16, 32, 48K.

PROLOAD extends the power of REMODEL with features to LOAD all or any portion of a basic program, COMBINE basic programs with renumbering and merging into any location, SAVE combined/merged programs or any portion to tape, and to VERIFY bit-for-bit the contents of saved programs. Users can now create libraries of BASIC programs or DATA statements which can then be loaded individually or in combination with other programs, thus expanding programming productivity and versatility. Requires REMODEL (16, 32, 48K). Special combined PROLOAD + REMODEL tape.

COPSYS is designed to COPY SYSTEM tapes (machine language object code) generated from the Radio Shack Editor/Assembler program. COPSYS can be used to duplicate those valuable system tapes before they become damaged.

TIMSER is a Time Series Analysis program that fits data to nine different 1st, 2nd and 3rd order curves. Goodness of fit data, tables, including projected data and confidence limits, and graphical displays of curve fit and variance are included. The program provides for correction factors and functions to test seasonal variations, inflation corrections, or cyclical variations. A detailed Users Manual is included complete with illustrated examples.

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REMODEL EXAMPLES

The examples below illustrate some of the capabilities of REMODEL. A trivial sample program is used to show the status before and after the specified action is completed. User input is underlined and modified areas are shaded.

1. REQUIREMENT: Renumber the entire program using a starting

number of 10 and incrementing by 10.

User: START? END? NEW?10 BY?10 MODE? User: START?5 END?125 NEW?10 BY?10 MODE?NUM

PROGRAM BEFORE	
5 PRINT 1: GOTO 24	10 PRINT 1: GOTO 20
24 PRINT 2: GOTO 125	20 PRINT 2: GOTO 60
25 PRINT 3: GOTO 63	30 PRINT 3: GOTO 50
50 PRINT 4: END	40 PRINT 4: END
63 PRINT 5: GOTO 50	50 PRINT 5: GOTO 40
125 PRINT 6: GOTO 24	60 PRINT 6: GOTO 30

COMMENTS: Note that default values were supplied automatically for the fields left blank.

REQUIREMENT: Move lines #50-63 between lines #5 and #24, renumbering them 10 increments of 10 starting at 10.

User: START?50 END?100 NEW?10 BY?10 MODE? User: START?5 END?63 NEW?10 BY?10 MODE?MOV

PROGRAM BEFORE	
5 PRINT 1: GOTO 24	10 PRINT 1: GOTO 24
24 PRINT 2: GOTO 125	16 PRINT 4: END
25 PRINT 3: GOTO 63	20 PRINT 5: GOTO 10
50 PRINT 4: END	24 PRINT 2: GOTO 125
63 PRINT 5: GOTO 50	25 PRINT 3: GOTO 20
125 PRINT 6: GOTO 25	125 PRINT 6: GOTO 25

3. REQUIREMENT: Move lines #50-63 between lines #24 and #25.

User: START?25 END?25 NEW?40 BY?10 MODE? User: START?25 END?25 NEW?40 BY?10 MODE?NUM

User: START?50 END?63 NEW?30 BY?5 MODE? User: START?50 END?63 NEW?30 BY?5 MODE?MOV

PROGRAM BEFORE	
5 PRINT 1: GOTO 24	10 PRINT 1: GOTO 30
24 PRINT 2: GOTO 125	20 PRINT 2: GOTO 60
25 PRINT 3: GOTO 63	30 PRINT 3: GOTO 50
50 PRINT 4: END	40 PRINT 4: END
63 PRINT 5: GOTO 50	50 PRINT 5: GOTO 40
125 PRINT 6: GOTO 25	60 PRINT 6: GOTO 30

COMMENTS: Blocks may be moved to any new location as long as there is sufficient room between sequence numbers, as above.

2. REQUIREMENT: Load statements #30 and #35 of program "A" between lines #15 and #30 of program "B" between lines #15 and #25.

User: START?30 END?35 NEW?20 BY?5 MODE? User: START?30 END?35 NEW?20 BY?5 MODE?MOV

MEMORY BEFORE	
10 PRINT 1: GOTO 30	15 PRINT 1: GOTO 30
15 PRINT 2: END	20 PRINT 2: END
30 PRINT 3: GOTO 15	25 PRINT 5: STOP

MEMORY AFTER	
10 PRINT 1: GOTO 30	10 PRINT 1: GOTO 30
15 PRINT 2: END	15 PRINT 2: END
30 PRINT 3: GOTO 15	20 PRINT 5: STOP
	25 PRINT 6: GOTO 40
	30 PRINT 3: GOTO 15

COMMENTS: Default values were supplied for the START and END fields. The NEW and BY fields were not used, as a result the statements were not renumbered.

3. REQUIREMENT: Save the contents of memory which contains program "A" from lines #15 to #30 to tape, renaming to program "C".

User: START?15 END?30 NEW? BY? MODE? User: START?15 END?30 NEW? BY? MODE?C

MEMORY BEFORE

PROGRAM BEFORE	
10 PRINT 1: GOTO 30	15 PRINT 1: GOTO 30
15 PRINT 2: END	20 PRINT 2: END
30 PRINT 3: GOTO 15	25 PRINT 5: GOTO 30
	30 PRINT 3: GOTO 15

PROGRAM AFTER	
10 PRINT 1: GOTO 30	15 PRINT 2: END
15 PRINT 2: END	20 PRINT 3: GOTO 15
30 PRINT 3: GOTO 15	25 PRINT 5: GOTO 30
	30 PRINT 3: GOTO 15

3. REQUIREMENT: Two steps were required in the above example. The first renumbered line #25 to #40, and the second moved lines #50-63 between #24 and #40 producing the desired result.

PROLOAD expands the capabilities of REMODEL as illustrated in the examples shown below. For these examples it is assumed that the following two program are on tape and positioned correctly when needed:

PROGRAM "A"

PROGRAM "B"

10 PRINT 1: GOTO 30
15 PRINT 2: END
30 PRINT 3: GOTO 15

25 PRINT 4: GOTO 35
30 PRINT 5: STOP
35 PRINT 6: GOTO 30

User input is underlined and areas loaded or saved to tape are shaded.

1. REQUIREMENT: Load program "A" into memory.

User: START? END? NEW? BY? MODE? "A"
User: START? END?6535 NEW? BY? MODE?T

MEMORY BEFORE

MEMORY AFTER

PROGRAM BEFORE	
10 PRINT 1: GOTO 30	15 PRINT 1: GOTO 30
15 PRINT 2: END	20 PRINT 2: END
30 PRINT 3: GOTO 15	25 PRINT 5: STOP

PROGRAM AFTER	
10 PRINT 1: GOTO 30	10 PRINT 1: GOTO 30
15 PRINT 2: END	15 PRINT 2: END
30 PRINT 3: GOTO 15	20 PRINT 5: STOP
	25 PRINT 6: GOTO 40
	30 PRINT 3: GOTO 15

COMMENTS: This operation was successful because there was room between statements # 15 and #30 for the two lines desired.

3. REQUIREMENT: Save the contents of memory which contains program "A" from lines #15 to #30 to tape, renaming to program "C".

User: START?15 END?30 NEW? BY? MODE? User: START?15 END?30 NEW? BY? MODE?C

MEMORY BEFORE

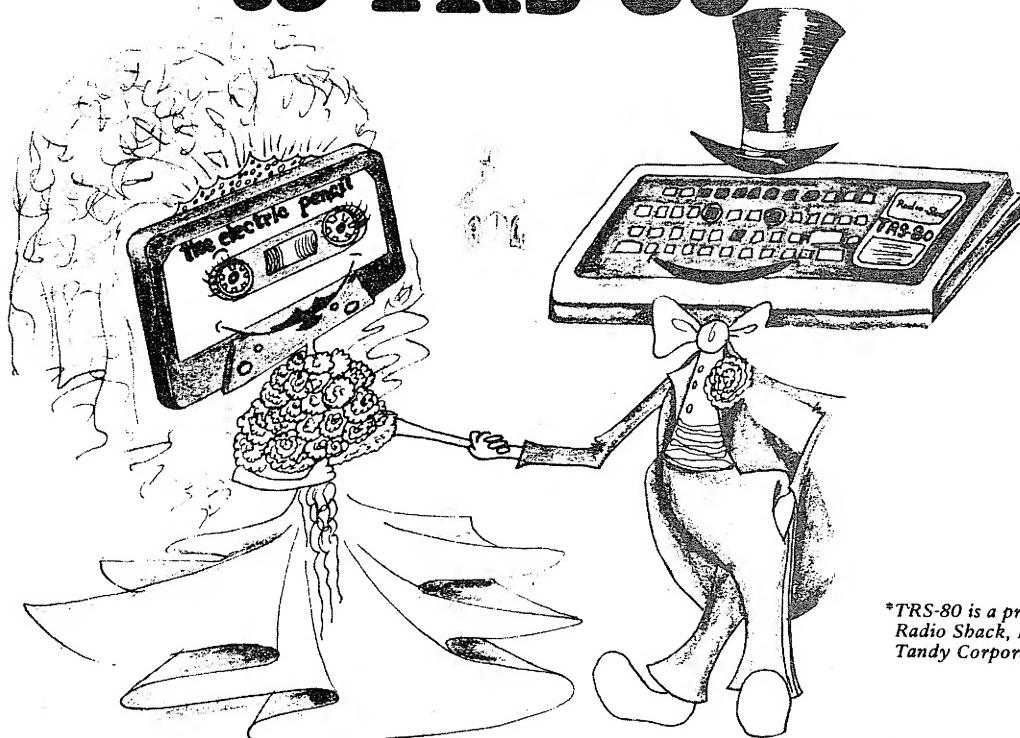
PROGRAM BEFORE	
10 PRINT 1: GOTO 30	15 PRINT 1: GOTO 30
15 PRINT 2: END	20 PRINT 2: END
30 PRINT 3: GOTO 15	25 PRINT 5: GOTO 30
	30 PRINT 3: GOTO 15

PROGRAM AFTER	
10 PRINT 1: GOTO 30	15 PRINT 2: END
15 PRINT 2: END	20 PRINT 3: GOTO 15
30 PRINT 3: GOTO 15	25 PRINT 5: GOTO 30
	30 PRINT 3: GOTO 15

COMMENTS: Note that the NEW and BY fields were not used. Any range of lines can be saved to tape. Tapes written can be verified by using the =C= mode as for the example above.

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INTRODUCTION TO TRS-80 GRAPHICS

From DILITHIUM PRESS by DON INMAN.

CONTENTS INCLUDE:

- THE VIDEO DISPLAY

The Plot Method
The Print Method

• TRS-80 VIDEO DISPLAY WORKSHEET

- SITTING DUCKS

Phase I Stationary Targets
Phase II Moving Targets

• STRAIGHT LINES AT ODD ANGLES

- WHAT'S BEHIND BARS?

Vertical Lines
Horizontal Lines

• OTHER GEOMETRIC FIGURES

- THE PLOT IS EXPLAINED

Rectangle Graphics

• BENDING A STRAIGHT LINE

- GAMES AND ABSTRACT ART

Random Rectangle Game
Abstract Art
Abstract Art Program

• THE ETERNAL TRIANGLE

• FAR OUT IDEAS

Low cost personal computers are moving into more and more homes and classrooms. One of the most exciting capabilities of these computers is their ability to provide graphical data displays that formerly cost thousands of dollars. This book provides a complete introduction to the basics of graphics programming using dozens of real examples which run on the popular Radio-Shack TRS-80 computer.

The book begins with the most basic concepts of line drawing and leads the reader on to geometric shapes, moving figure animation, and other more advanced topics. No mathematics is required, but some familiarity with the BASIC programming language is assumed. A TRS-80 computer for running the examples would be helpful, but most concepts apply to all low cost computers with graphics capabilities.



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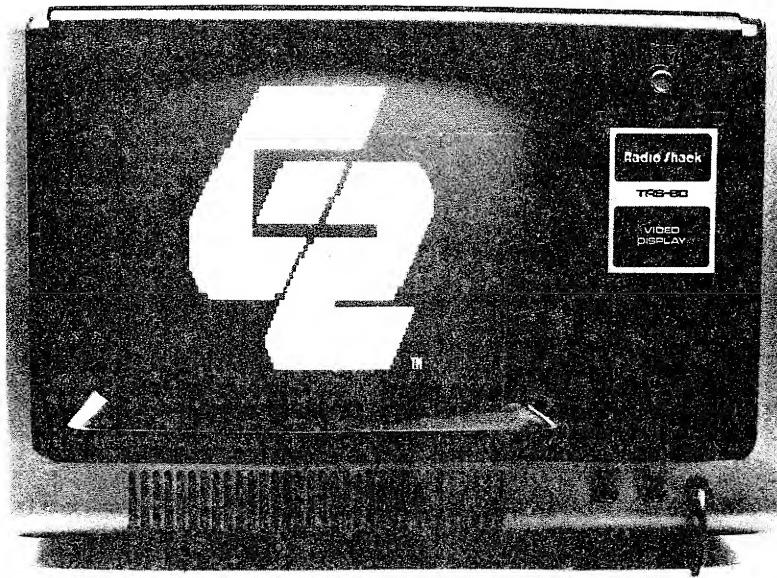
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Have You Wished for More Power? This new interpreter gives you 10 machine language user calls for subroutines, long error messages, a new TIMES\$ call for your real time accessory, plus measure or limit input timing that lets you put a time limit on responses when you're playing games or giving exams. And the list doesn't stop here.

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Only Microsoft Could Do It. G2 Level III Basic was created by Microsoft, the same company that wrote Level II Basic for Radio Shack. And it actually uses Level II as a foundation for this enhanced add-on. By the time you've mastered all it can do, calling up the flexibility of the graphics commands, and even enjoying the convenience of renumbering, you'll wonder how it was all possible. It's like getting a whole new computer for your computer.

Available Now for Only \$49.95. You get the power that might otherwise cost you hundreds of dollars in additional equipment for only \$49.95. Price includes the User Manual, a Quick-Reference Card, and a preprogrammed cassette tape. Load the tape, open the manual, and get ready to work with the most powerful Basic Interpreter you've ever had your hands on. G2 Level III Basic for the TRS-80. Another member of the growing G2 Personal Computer Program Library.

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Is a package of four game programs that closely simulate the "action" of big-time casino games of chance. Games include Blackjack, Craps, Roulette and Slot Machine. In addition to a realistic simulation of the action of the games, odds and payoffs have been programmed to yield results that are as close as possible to the odds and payoffs currently prevailing in Las Vegas. Programs are randomized to produce the same "chances" that a player has in a real-life casino play situation.

G/2 CLINIC \$14.95

Is a package of three novel programs that can help you gain new insight into your body, your lifestyle, and the ways in which you relate to some seldom-considered aspects of your heredity.

A major feature of this package is that any program can be used and enjoyed by a person with no previous experience in working with a computer. The programs have built-in "prompts", or messages that appear on the screen, telling what to do next. And most of the background explanation is also built into the program, available for the user to read or ignore to personal preference.

These programs are valuable for the information they contain, and for the entertainment value they provide. They are, of course, no substitute for professional medical advice.

G/2 THE MARKET \$14.95

Is a computer simulation of the stock market. Each game is different as your computer controls market trends in the dynamic moves of eight different corporations. You can buy stock in a utility for low risk and consistent growth, or speculate on a glamour stock for quick profits even faster losses. Players buy and sell stocks in as many as eight companies. The program is designed so that each of these companies will react differently to market fluctuations. You can buy or sell stocks short, enjoy a stock split, or perhaps go bankrupt. After all players have made their desired adjustments to their portfolios by buying and selling stocks, the market is advanced one week and a new period of trading begins. At the end of the game each player can determine by his or her financial status how good a stock market trader he or she is. The Market is a computer simulation written by Dick Ainsworth and Al Baker and produced by The Image Producers, Inc.

G/2 OIL TYCOON \$14.95

Is a game based on the wild and exciting business of oil well wildcatting. You and your opponents are independent oil producers looking to hit the newest and greatest oil strike of the year. You are presented with a map that defines geologically the area in which you are searching for oil, and based on your knowledge of geology, geo-physics, and a little bit of luck you attempt to sink wells that may hit it rich. Oil Tycoon is another imaginative computer simulation written by Dick Ainsworth and produced by The Image Producers, Inc.

G/2 OUTWIT \$14.95

Is a package of three game programs that challenge the insight and strategic skill of a player. NINES requires only basic addition, yet provides hours of fun as you play against the computer and attempt to come up with the correct combination of numbers. TOWERS OF TIBET calls for both strong strategy and an excellent memory as you attempt to solve the ancient riddle of the Tibetan minkas. The further you go into the game, the harder the moves become and the better you must become. LINE-O-FIVE is played against a computer that never makes a mistake. All of the Outwit programs challenge your mind and memory.

G/2 OUTWIT II \$14.95

Is another in the continuing series of mind games. You test your skills against your opponent in trying to remember locations of numbers and combination numbers in the game of CONCENTRATION. FRAME-UP pits you against your opponent or the computer in trying to come up with the best combination of numbers available to you in a ten by ten matrix. Your opponent locks into a row or column and you must pick the best value for that column or row. The game requires that you look ahead at least three to four moves to be successful with the game. Again, more programs from G/2 to help stimulate the mind.

G/2 BLOCKADE \$14.95

Is a series of three games where you attempt to blockade your opponent and his trail into a corner of the computer screen. You enter secret tunnels or unknown areas and your trail re-emerges in different areas of the screen. A fast-paced game that requires both manual dexterity and strategic skills.

G/2 ADVENTURE \$14.95

Is a package of games that simulate the suspense and mystery of a good mystery novel. You attempt to find hidden passages that rise to new levels. You must elude demons, witches and other "baddies" to achieve your goal of success. A package that will keep the family stimulated and engrossed for hours on rainy evenings.

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Pilot is a dialogue oriented language which deals mainly with words and text. The syntax is extremely simple, allowing teachers and students to learn it readily. Because much educational material is essentially in English, non-mathematical users find Pilot a flexible tool for presenting materials via computer. It should be clear that Pilot was not intended to replace other computer languages. It fills a complementary place among dialogue, numerical, procedural, and curricular languages.

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32 BASIC PROGRAMS FOR THE TRS-80 COMPUTER (LEVEL II) (FROM DILITHIUM PRESS)

Thomas H. Rugg and Phillip S. Feldman

You've bought yourself a TRS-80 computer, now what do you do? Your answer, of course, depends on your own particular situation. You will find a lot of answers in this book of computer programs especially for the TRS-80. You can use the programs as is or make the changes shown and suggested. Each of the 32 chapters FULLY documents a different program for the TRS-80! Applications, games, educational and math programs and more. Key features of the book are: 1. The programs work unchanged on a TRS-80. 2. There is a very low cost per program. 3. the programs cover a wide range of interests. 4. The authors are experienced programmers. 5. Full explanations are provided for each program. 6. Easy changes are provided, so you can make the programs work to your preference. 7. Projects are suggested for you to undertake and sufficient reference material is provided to make these projects possible.

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INTRODUCTION TO T-BUG (FROM DILITHIUM PRESS)

Don Inman and Kurt Inman

This is the **only** book to describe in detail the machine language monitor operations of the popular Radio Shack TRS-80 computer. Each command is explained and discussed in detail and examples are given to show how the commands may be used. Each step of every sample program is accompanied by a sketch of the corresponding video display for complete "no question about it" understanding of the operations. The examples constitute practical applications which make this book not only instructional, but useful as well.

REAL TIME BASIC FOR THE TRS-80 (FROM DILITHIUM PRESS)

Don Inman, Kurt Inman and Bob Albrecht

Written in the easy self-teaching style of Bob Albrecht's **MY COMPUTER LIKES ME**, this book will teach you how to read and understand programs in BASIC. Although it is intended primarily for engineers, it can be used by anyone who has a background in electronics. The first half of the book introduces control concepts using just the keyboard and the screen. In the second half, you will learn how to interface your TRS-80 to other devices and how to wire some specific micro-processor circuits.

CONTENTS: The TRS-80 • The BASIC Language • Functions and Subroutines • If-Then and All That • Realistic Computing • Interfacing TRS-80 • Some Real Problems • What You Can Do with It

A STEP BY STEP INTRODUCTION TO 8080 MICROPROCESSOR SYSTEMS (FROM DILITHIUM PRESS)

David L. Cohn and James L. Melsa

Especially useful for Beginners who want to learn machine language

This step by step presentation does not require any electronics or computer background. If you have access to an 8080 system, the book contains a number of exercises that illustrate the concepts discussed in each chapter; however, many of the exercises can be worked with pencil and paper.

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BASIC

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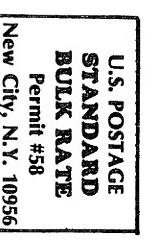
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